PATENT

Atty Docket No.: 200312069-3

App. Ser. No.: 10/599,529

IN THE CLAIMS:

Please find a listing of the claims below, with the statuses of the claims shown in

parentheses. This listing will replace all prior versions, and listings, of claims in the present

application.

1-16. (Canceled).

17. (Original) A diagnostic apparatus, comprising:

validity determining means for determining whether a measurement value obtained

by time-sequentially measuring a measurement object is valid;

reference generating means for generating a center value of measurement values

determined to be valid as a diagnosis reference used for diagnosing the measurement object

each time the measurement value is determined to be valid; and

diagnosing means for diagnosing the measurement object to be normal when the

measurement value is within a predetermined range from the center value of the

measurement values which is set according to a passage of measuring time.

18. (Original) The diagnostic apparatus according to claim 17, further comprising

state determining means for determining a state of the measurement object by using the

measurement value determined to be valid, the measurement object changing among a

plurality of states,

wherein the reference generating means generates the diagnosis reference according

to the state of the measurement object.

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19. (Original) The diagnostic apparatus according to claim 17, further comprising

state determining means for determining a state of the measurement object by using the

measurement value determined to be valid, the measurement object changing among a

plurality of states,

wherein the diagnosing means diagnoses the measurement object according to the

state of the measurement object.

20. (Original) The diagnostic apparatus according to claim 17,

wherein the validity determining means determines a measurement value obtained at

timing other than predetermined timing, a measurement value inevitably containing an error

when the measurement object is measured, and a measurement value taking a value outside a

preset range, or a measurement value other than a combination of anyone or more of the

measurement values to be valid.

21. (Currently amended) The diagnostic apparatus according to claim 17,

wherein the diagnosing means determines the measurement object to be normal when

the measurement value takes a value outside the predetermined range from the center value

of the measurement values by a predetermined number of times or more, or [[and]] by a

predetermined frequency or more, or in a case other than one of these cases.

22. (Currently amended) A transport machine, comprising:

transporting means including a component to be a measurement object;

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validity determining means for determining whether a measurement value obtained

by time-sequentially measuring a measurement object is valid;

reference generating means for generating a center value of measurement values

determined to be valid as a diagnosis reference used for diagnosis of the measurement object

each time the measurement value is determined to be valid; and

diagnosing means for diagnosing the measurement object to be normal when the

measurement value is within a predetermined range from the center value of the

measurement values obtained by [[the]]a statistic processing which is set according to a

passage of measuring time.

23. (Currently amended) A diagnostic method, comprising:

determining whether a measurement value obtained by time-sequentially measuring a

measurement object is valid;

generating a center value of measurement values determined to be valid as a

diagnosis reference used for diagnosis of the measurement object each time the measurement

value is determined to be valid; and

diagnosing the measurement object to be normal when the measurement value is

within a predetermined range from the center value of the measurement values obtained by

[[the]] a statistic processing which is set according to a passage of measuring time.

24. (Currently amended) A computer readable medium having stored thereon a

program for causing a computer to execute:

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a validity determining step of determining whether a measurement value obtained by

time-sequentially measuring a measurement object is valid;

a reference generating step of generating a center value of measurement values

determined to be valid as a diagnosis reference used for diagnosing the measurement object

each time the measurement value is determined to be valid; and

a diagnosing step of diagnosing the measurement object to be normal when the

measurement value is within a predetermined range from the center value of the

measurement values obtained by [[the]]a statistic processing which is set according to a

passage of measuring time.